

## CLAIMS

What is claimed is:

- 1 1. A device for retaining a golf club head, comprising:
  - 2 a housing;
  - 3 an insert removably coupled to said housing, said insert configured to at least partially
  - 4 contact the golf club head; and
  - 5 a locking mechanism coupled to said housing.
- 1 2. The device of claim 1, wherein said insert contains a cavity configured to at least
- 2 partially contact the golf club head therein.
- 1 3. The device of claim 2, wherein said cavity is at least partially contoured to the golf
- 2 club head.
- 1 4. The device of claim 3, wherein said cavity substantially envelopes the golf club head.
- 1 5. The device of claim 2, wherein:
  - 2 said housing includes a lower housing part and an upper housing part; and
  - 3 said insert includes a lower insert part coupled to said lower housing part and an upper
  - 4 insert part coupled to said upper housing part.
- 1 6. The device of claim 5, wherein said lower insert part is removably coupled to said
- 2 lower housing part and said upper insert part is removably coupled to said upper housing part.

1    7.    The device of claim 5, wherein:  
2                 said lower insert part contains a lower cavity part;  
3                 said upper insert part contains an upper cavity part; and  
4                 said lower cavity part and said upper cavity part are configured to matingly form said  
5         cavity.

1    8.    The device of claim 5, wherein at least one of said lower insert part and said upper  
2         insert part defines a hole configured to allow a shaft coupled to the golf club head to pass  
3         therethrough.

1    9.    The device of claim 1, wherein said insert is formed at least in part of resin.

1    10.   The device of claim 9, wherein said resin has a gel time of approximately one hour or  
2         less.

1    11.   The device of claim 9, wherein said resin, when cured, has a specific gravity of  
2         approximately 1.7 to approximately 1.8.

1    12.   The device of claim 9, wherein said resin, when cured, has a Shore D hardness of  
2         approximately 80 to approximately 90.

1    13.   The device of claim 9, wherein said resin, when cured, has an ultimate compressive  
2         strength from approximately 8,000 psi to approximately 15,000 psi.

1    14.   The device of claim 9, wherein said resin, when cured, has an ultimate flexural  
2         strength from approximately 5,000 psi to approximately 11,000 psi.

1    15.    The device of claim 9, wherein said resin, when cured, has a coefficient of thermal  
2    expansion within the range of approximately  $1.5 \cdot 10^{-5}$  in./in/ $^{\circ}$ F to approximately  $4.0 \cdot 10^{-5}$   
3    in./in/ $^{\circ}$ F.

1    16.    The device of claim 9, wherein said resin is selected from the group consisting of RP  
2    132 resin, RP 3262 resin, and RP 3269 resin.

1    17.    The device of claim 1, wherein said insert is removably coupled to said housing.

1    18.    The device of claim 1, wherein:  
2         said housing includes a lower housing part and an upper housing part; and  
3         said insert includes a lower insert part coupled to said lower housing part and an upper  
4         insert part coupled to said upper housing part.

1    19.    The device of claim 18, wherein said lower housing part is hingedly connected to said  
2         upper housing part.

1    20.    The device of claim 1, wherein said locking mechanism includes a cross bar and a  
2         locking bar.

1    21.    The device of claim 20, wherein said locking bar is selectively engageable with said  
2         cross bar to retain the golf club head within said housing.

- 1    22.    The device of claim 20, wherein:
  - 2       said locking mechanism further includes a stator bar coupled to said housing at one
  - 3       end and hingedly coupled to said cross bar at an opposite end; and
  - 4       said locking bar is hingedly coupled to said housing.
- 1    23.    The device of claim 22, wherein:
  - 2       said housing includes a lower housing part and an upper housing part, said lower
  - 3       housing part being hingedly connected to said upper housing part; and
  - 4       said cross bar is moveable between an open position, in which said housing parts are
  - 5       relatively moveable, and a closed position, in which said housing parts are relatively fixed.
- 1    24.    The device of claim 23, wherein:
  - 2       said locking bar includes a lock; and
  - 3       said lock is selectively engageable to retain said cross bar in said closed position.
- 1    25.    The device of claim 22, wherein:
  - 2       said cross bar includes a notch; and
  - 3       said locking bar is configured to fit, at least in part, within said notch.
- 1    26.    The device of claim 25, further comprising a lock coupled to said locking bar.
- 1    27.    The device of claim 26, wherein said lock is selectively engageable to retain or release  
2       said cross bar.
- 1    28.    The device of claim 27, wherein said lock is threadably engageable.

- 1    29.    The device of claim 1, wherein the device is portable.
- 1    30.    The device of claim 1, further comprising a base member for securing said housing  
2    member.
- 1    31.    The device of claim 30, wherein said base member is integral with said housing.
- 1    32.    The device of claim 30, wherein said base member is configured to be at least partially  
2    retained within a vise.
- 1    33.    A device for customizing each of a group of distinct golf clubs, comprising:  
2            a housing;  
3            a plurality of inserts, each of said inserts being tailored to a specific golf club of the  
4    group of distinct golf clubs; and  
5            a locking mechanism.
- 1    34.    The device of claim 33, wherein each of said inserts is at least partially contoured to its  
2    specific golf club.
- 1    35.    The device of claim 34, wherein each of said inserts substantially envelopes its  
2    specific golf club.